

FIG. 1A

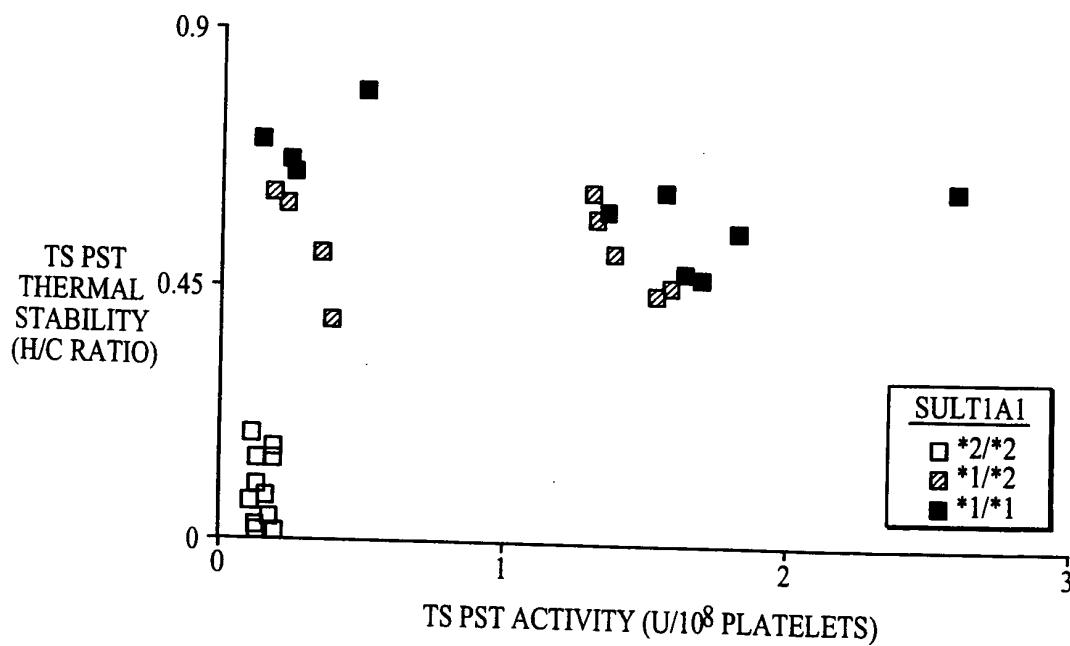


FIG. 1B

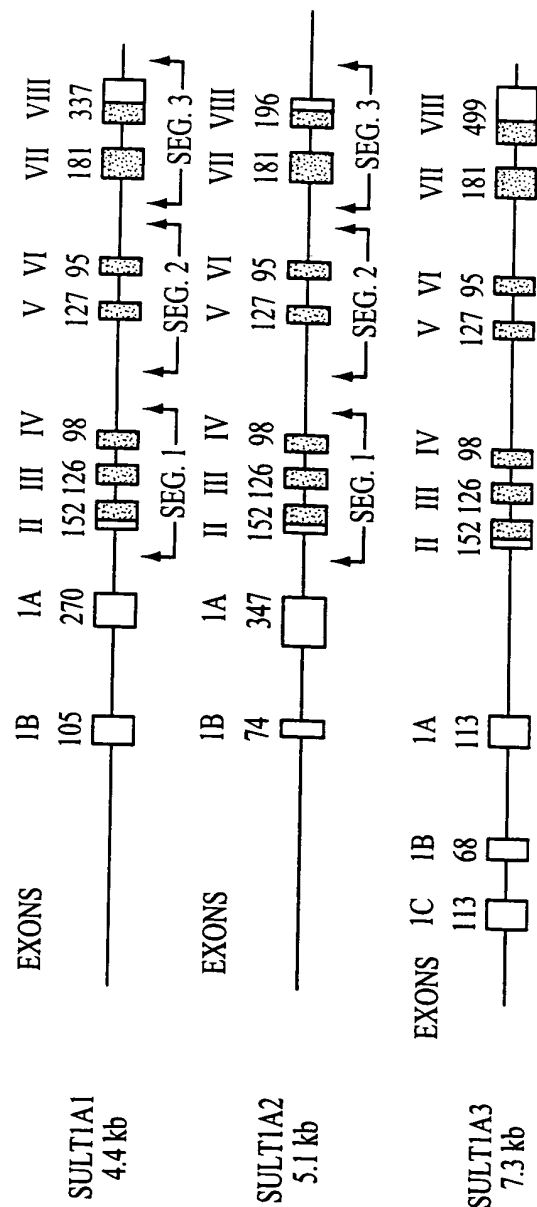


FIG. 2

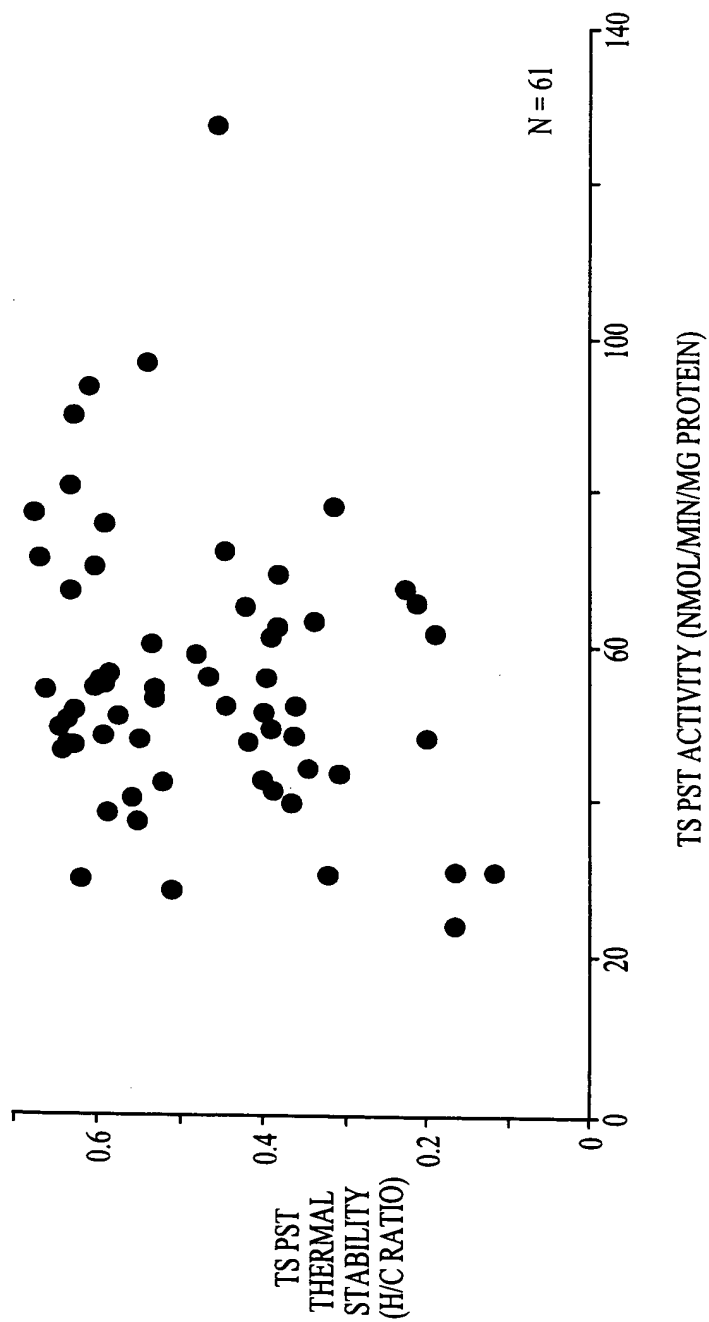


FIG. 3

2601	cgggtccag atccctccca cagtgga	CTT AGGAACCTT CAGCTCAGAG AACAAACCTG CATTCCCCAC ACAGCACCA CAATCACCA CTGCGGCGCA	EXON IB
2701	GGAGGACAG AGGCGAGGTT CCCAGAGCT CAGTgagtg	acacagtgga aaggacaggg gggccctaac cctgtccagc ttgtggtct aacattccag	
2801	aagctgagc cctgcccctt cccatggat	atccatttc agaacacct ggcctggtg aatcccttc ccttccctg ttgtttgtt	
2901	ttttccccc ggggagggca ggtcttgctg	tgaccaggg tggatcctg gggatccctg ggcctgagc cttgcaatc cgggtccaa gtagttctct	
3001	tgccacagc totggagtag ctaggactac	agggccctac cactcctgct ggttaattt tttaagatt tttagagtg gggctctgga	
3101	atgctgacc aggttggtct ccaactcctg	gctcagcct ccttagggc ttggattata ggtggagcc acctgccta ggcctgctg ttgtcaggt	
3201	catacagtt ttgttcatt cccagcagc	totgcccct agtagcagt cagttcctca atggccctg ttgtccctg agccagatg gactgtggcc	
3301	agccaagtg atcagagcc tggctggct	ggtggggtt TTT CACATGTGAG GGGCTGAGG GGTCAAGAG GAGAGCATCT CCAGTGGTGG GAGGCTGGGG	EXON IA
3401	GTCCAGCAG GAAATGGTGA GACAAAGGC	GCTGGTGGC ACAGGAGAG TCCTAGAGCT TCCTCAGTGC AGCTGGACTC TCCTGGAGAC	
3501	CTTCACACAC CTTGATATCT	GGGCTTGGC CGAGAGGCT GCTTCACTG GTCTGCACCA TGGCCAGGC CTTGGGATT TGAACAGCTC CGCAGGTGAA	
3601	TGAAGTga ggcaggtg	gggaacaa ggaatgag cagacgtgt tttagccac agccagga ctgactggt ttgtgagtg gggcaagtc	
3701	ctagcctcc ctgagcctca gtagctcc	tgaaagaa actccact ttctggtt tttaggtg taagggaag ggcctggctc tggccctga	
3801	ccagAACCA TGAAGTGTAT CCAGGACAC	TCCGCGCGC CACTGAGTA GTGAAGGG GTCCCGCTCA TCAAGTACTT TGCAGAGGCA CTGGGGCCCC	EXON II
3901	TGCAGAGCTT CCAGGCCCGG CTTGATGACC	TGCTCATCAG CACTACCC AATCCGta agtgaggag ggcacccacc ctctccagg tggcagtc	
4001	ccacttgcc agcgaggtcg tgcctcagc	ctgctcacc cccatctccc ttctctcca GACACACCT GGGTGAGCCA GATTCTGGAC ATGATCTACC	EXON III
4101	AGGTTGGTGA CTTGGAGAAG TGTACCGAG	CTCCATCTT CATGCGGGT CCGTCTCTTG APTTCAAAGC CCGAGGAT CCCTCAGTg	
4201	tggtgggtg aagggagtg gaggagaca	gggtgggg tttagctcac cagacctcc ctgacccact gctcag	EXON IV
4301	CGGCCCCACG ACTCCTGAAG ACACACCTGC	CCCTGGCTCT GCTCCCCAG ACTCTGTGG ATCAGAGGT CAAGTgag	
4401	coataatcc agcatttg gagggtgag	caggagato acctgaggt gggagttga gggacccctg agaacatag aagaacctg totactaa	
4501	aaatacaga ttagccgggt ggtggggg	gtgctgttaa tccagctac tccagcct gagaagag aatcactga accgggga gggaggtgt	
4601	ggtgagccag agatccacc attgattcc	agcctgagca aatacaca aataataaa taatagata tataataaa aataaactg	
4701	tgccacctg ggtggtcac tgcgtaatg	ccagacattt gggagccaa attgggtga tcaactgagc tcaaggata cagaccagc cgggaacat	
4801	ggggaactc catctcata aaatgcaa	atatcagcag ggcaggtg catggogtg tagttccag tactgaaag totgaggtg gaggattgct	
4901	tggccctgg aggtcaagt tgcagtagt	tattatcact ccagcact ccaactgg cagacagaa aaagaaag caaggtctt ttcttttt	
5001	gagattgtot caataataa ataatgat	aaataaagt aaataaato ccaaataa agaaaaag aaagttccag gttggtggga	
5101	tgtgaatca gggagagag cctggctoa	ggccagttt ggtcgtgtc ttctgggaa gtgcctcac ttctccag cttgtctcat cttctgggg	
5201	ggggaotgto tgcctcttgc totgatgac	aggaagtaa ggccttcag tttagaacta agaaagtag aggtgggtg ctacagcc cacaataat	
5301	ggtggcggtg ggtacagcc tggggagag	tgcttgctc cagatcggg ttgacgat tatattgta tagaatga tggctcag	
5401	gaccagcag gacttggt totgagcag	gttcagatc tgaactggc ctacgggtg cgtgagat caaacagtc agcctcaag cctcaggtc	

FIG. 5B

101 ttgtgcaag ctgactctac ctactctct ctactctct ttactctct ttactctct ttactctct ttactctct ttactctct
 201 agagccaaag tgatctgact gtagagagag ttactctct ttactctct ttactctct ttactctct ttactctct ttactctct
 301 gcccagact ggtccagctt tgggaagag gtagagag gtagagag gtagagag gtagagag gtagagag gtagagag
 401 gggcttgga tgcctgact tgcctgact tgcctgact tgcctgact tgcctgact tgcctgact tgcctgact tgcctgact
 501 gcccagagga aatagtga gactgggaat tagagagag gactgggaat tagagagag gactgggaat tagagagag gactgggaat
 601 cctgcttt gtaggagac tggatagcc tggatagcc tggatagcc tggatagcc tggatagcc tggatagcc tggatagcc
 701 gacatcgacc tcagccgctt tcagccgctt tcagccgctt tcagccgctt tcagccgctt tcagccgctt tcagccgctt
 801 tcttggtca ccgcaactc ccgcaactc ccgcaactc ccgcaactc ccgcaactc ccgcaactc ccgcaactc
 901 aattttat ttttagtag gacaggttt ctactctct ctactctct ctactctct ctactctct ctactctct
 1001 ctgggattac agaggtgag caccgtgca ggcctctct ggcctctct ggcctctct ggcctctct ggcctctct
 1101 gacagattac tgcagagtae aggtgagtae aggtgagtae aggtgagtae aggtgagtae aggtgagtae aggtgagtae
 1201 gggcttctt aactaaagag cgtcttgga cgtcttgga cgtcttgga cgtcttgga cgtcttgga cgtcttgga
 1301 tctgtctgt tggctgtgc cagctgtgc cagctgtgc cagctgtgc cagctgtgc cagctgtgc cagctgtgc
 1401 atgtgaact gctgactgg atttgtat cactgtat cactgtat cactgtat cactgtat cactgtat
 1501 ttgttaact agtgaatag agtgaatag agtgaatag agtgaatag agtgaatag agtgaatag agtgaatag
 1601 gattactca tgggacaga gtaggagga gtaggagga gtaggagga gtaggagga gtaggagga gtaggagga
 1701 actccact gtcgctgc cctgactc cctgactc cctgactc cctgactc cctgactc cctgactc
 1801 tgcctctga cttaaagt aggtaaag aggtaaag aggtaaag aggtaaag aggtaaag aggtaaag
 1901 ctgtctgt gactcctt caaaccaag caaaccaag caaaccaag caaaccaag caaaccaag caaaccaag
 2001 gacacatga gctgggctg actccagag actccagag actccagag actccagag actccagag actccagag
 2101 actctgcca caacatccc totagactg totagactg totagactg totagactg totagactg totagactg
 2201 cactttaag actggcctg agccagcag agccagcag agccagcag agccagcag agccagcag agccagcag
 2301 attagagaga gctgtctgt tgggtgctg tgggtgctg tgggtgctg tgggtgctg tgggtgctg tgggtgctg
 2401 cagaaaaaa aactacaa aacaaacca caattgggc caattgggc caattgggc caattgggc caattgggc
 2501 tttaagctt tctcagctg gacactag gagggtaat gagggtaat gagggtaat gagggtaat gagggtaat

FIG. 5A

5501	ctcccttgcc aatccasag atgagctgpc ctgggpcagg ctgtgtgtgtg atgtgtgtgtg totgtccctgt caggtgtgtct atgtgtgtccg	EXON V
5601	CAACGCAAG GATGTGGCAG TTTCCTACTA CCACTTTTAC CACATGGCCA AGGTGACACC TGAGCCTTGG ACCTGGGACA GCTTCTTGA GAAGTTTCATG	
5701	N A K D Y A V S Y Y H F Y H H A K V H P E P G T W D S F L E K F M	
	GTCGGAGAAG gtgggtttga tgggaggaag gaaagtgtgtg agccgaaggg tgggtgtgtac aacgpaagp aacccgtgtgt tgggaacccct tgcctgttcc	
	V G E Y	
5801	toeaggtgtcc TACGGATCCT GGTACCAAGCA CGTGCAGGAG TGGTGGGAGC TGAGCGGCAC CCACCTGTGT CTCTACCTCT TCTATGAGA CATGAAGGAG	EXON VI
	S Y G S W Y Q H V Q E W W E L S R T H P V L Y L F Y E D M K E	
5901	gtgagaccac ctgtgagct tootocattg tgacacctg ggggpcagg cccaccagg; toaccagcc cctcccttg gcagccccc	
6001	cagcagccc ggtttcccca tootgoottc ttgpcocagg octcccggt acagggccc cotgpcagg ggcocacac ggtotoato accacatct	
6101	gagtcagctg catggggggc caggyatcag aaacttagtc ctattgtctac toctgtgcaa aggtgtgtg acccagggcc acagtcatg agaaagacca	
6201	tcacggtct caoccatag agccaagpcc agtcatgat gggatcacag ggpagacag aattctttt accccggga otgggpcctt ggggtgtgag	
6301	gagttggctc tgcagggctc ctaggagagg tggccagtc gctctgag tttagaagg ggaacccctt tacttttct gaatcagpaa tocgagccctc	
6401	caotgagag cccctctgtc ctacgaccc CAAAGGGAG ATTCAAAAGA TCTGGAGTT TGTGGGGCAC TCCCTGCCAG AGGAGACCGT GGACTTCATG	EXON VII
	N P K R E I Q K I L E F V G H S L P E E T V D F H	
6501	GTTGAGCACA CPTCGTTCAA GGAGATGAAG AAGAACCCTA TGACCAACTA CACCACCGTC CCCAGGAGT TCATGGACCA CASCATCTCC CCCTTCATGA	
6601	V Q H T S F K E M K K N P M T N Y T T V P Q E F H D H S I S P F M R	
	GGAAAGgtgg gtgctggcca gtacgggggt ttgggggggg tgggagpago agotgagpoo tocccatagg caotggggp otccootggg atgagactcc	
	K G	
6701	agccttgctc cctgcttcc ccccccagc ATGGCTGGG ACTGGAGAGC CACCTTCACC GTGGCGCAGA ATGAGCGCTT CGATGCCGAC TATGCGGAGA	EXON VIII
	M A G D W K T T F T V A Q N E R F D A D Y A E K	
6801	AGATGGCAGG CTGCAGCCTC AGCTTCCGCT CTGAGCTGTG AGAGGGGCTC CTGGGCTCAC TGCAGAGGGA GTGTGCGAAT CAAACCTGAC CAAGCGGCTC	
	M A G C S L S F R S E L	
6901	AAGAATAAAA TATGAATTGA GGGCCTGGGA CGGTAGCTCA TGTCTTAAT CCAGCAATT TGGAGGCTGA GGTGGGAGGA TCATTTGAGC CCAGGAGTTC	
7001	GAGACCAACC TGGGCAACAT AGTGAGATTC TGTAAATAA ATAAATAAA ATAAACCAA TTTTAAAA gagataaaa tatgattgtg ggcacggcat	
7101	agtggtoat g 7152	

FIG. 5C

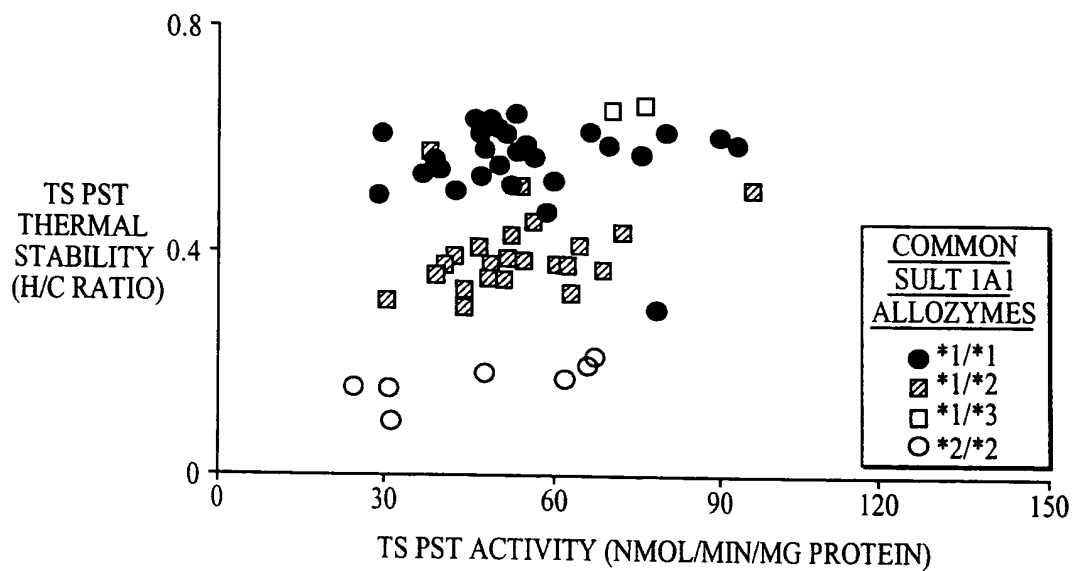


FIG. 4A

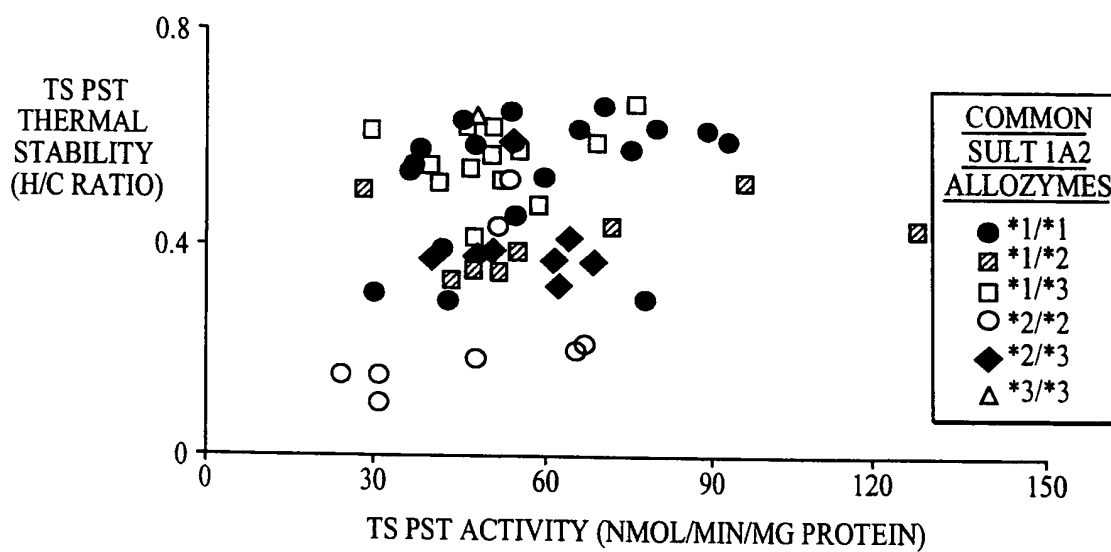


FIG. 4B

-3729 ctctccctcc ttgtctcttta cctgctctgt gctgggaca ggtgaagcg gggcccttgt gttgccccaa cctggctgtg tggctaagag cccactgat
-3629 ctgctgtga gaggagtcc ttccggaaga accagggcag cttctgccc tagagggaca atgcccotago tgaagtgaat cccccggccc cagcctgggtc
-3529 cagctttggg aagaggggtgc ccagtgtgtc aatccaggcc ggggcagcgg tgtcctgac ttggtattca gggctgagcc tggagggggc ttgtgatgoc
-3429 tgaactgtc totctctctg gcccactgpc ttgttagctg tgaaggctca ctgctttggg tgacctgato ggtgctgtat ggaatgagac ggggggaaata
-3329 gtggaagact cgggaattaga agactgagt gggctttggc ccagcctcc ctacccact cctgtctcg taggggaggt cacaagagc cagtgggaca tggactccag
-3229 gcaactgga tagcctgtg ggaactcagt gtcctaatc gtcctaatc gtcctaatc gtcctaatc gtcctaatc gtcctaatc gtcctaatc gtcctaatc gtcctaatc
-3129 cctgtttoca cgtttcttgt tgttttttt ttttttggg gaaagagttt cactcttgtt gcccaggtg gactgcaatg ggtgatctt ggtcaccgc
-3029 aactctgpc tcccgggttc aagcattct cctgctcag cctcccaagt agtgggatt ctccaggtga totgctgccc tgggctccc aaagtctgg gattacagga
-2929 agtagagaca aggtttctcc atgttggtca ggtgtgtc aaactccga ctccaggtga totgctgccc tgggctccc aaagtctgg gattacagga
-2829 gtgagccaco gtcocaggcc ttctocaggc tottgccacc ttgagcaga aaatttaag gactcactg gactcactg gactcactg gactcactg gactcactg
-2729 gactaaagg actcaotgaa gaagaggac gtcgggggtcc tcaagagagt gtcctcactg gactcactg gactcactg gactcactg gactcactg
-2629 aaagaggggt atattoatga agagtccagg aaagttaaa gattctcaa gactcactg gactcactg gactcactg gactcactg gactcactg
-2529 ttggcaotgg tgggtgtacg gtttccatg ttactgattg tcaagtga gactcactg gactcactg gactcactg gactcactg gactcactg
-2429 cgaagccago ttggtccca toctattttt caggactta ttggccttg gcaactgag ctatttctc gtcctcactg gactcactg gactcactg gactcactg
-2329 cctgggattt totgttgtct tctagcact ctattactc caactctctc totttttct gtcctcactg gactcactg gactcactg gactcactg gactcactg
-2229 caatacaag tctcagtcac gaggccctcc tgaaggttgc tgaaggttgc tgaaggttgc tgaaggttgc tgaaggttgc tgaaggttgc tgaaggttgc
-2129 caagagggag ggaaggggg cctgtggccc tagcagggga gcaactctc ctctgcttg aaatccactg cctcagtttt ccccgcttgc ctctgagctc
-2029 acgcaacct ggaagggctt gggagactca ccttactca gatgttgtt tacctgtctc gtgcccaggt tgaactgga cttaaataag tgaggacaaa
-1929 gaaagaggag ggtggggggg tgcactcctt ccacgggggc ctgtggcttc caagcctcaa cctcctctgg totgtgtgtg tggagcctcc ttcaaccca
-1829 tggaaagaaa agtccctgpc aggggtgtg gttctctag gatctctat agatgttgtg tgaagtcctc agggagccat gaagtgggg ctggctccca
-1729 gggcaatggg actgagtggt cctgttgtt totgttgtt atggatccat gctctgctcc accctgccc cttaactctg cccacagca taactccaga
-1629 ctggccttgt ggtcagagcc tggagtgc atggagtggt ggtgactgg gtcagagccc cctcctcctc tottgctgg gtcattaga gaaagcttgt cttttggagt
-1529 caggtaggtg acctttccag ggcctgcta tccagcttt cctcctcctc tottgctgg gtcattaga gaaagcttgt cttttggagt
-1429 tcaaggggag gtcagagac cagtgcagc tcaaaaaaa aaaaaacccc accattggg cctttccctt ttoattotto tgttttttac
-1329 acaccaaac cagtcttgg ttggagatc actttaagct tgtctccagc tggcaacta aggaggggtaa tagagaagct ccccccccc caacctacac

FIG. 6A

-1229	cotttccttcc ggaaggaat ctaagtccag ccccggtctc agatccctcc caactgaac taagaaaccc teagpacaga caacacccct	GCATTCCTCCCA	EXON IB
-1129	CACACACCC ACATCAACC ACTGCGGGG AGAGGGGAC GAGGCCAGGT TCCCAAGAGC TCAGTgagt gacacacgg aatggccag gaagccctoa		
-1029	ccctgtcag cttgtggctc caacattoca gaagccgag cctctgttat cctgtccctc toccatgga tatcccatit cagacaaccc cggccggcct		
-929	gaatccccc ccttcccttt ttttttttcc ggggaggcca ggtctgtgtg toacccaggc tggagtgtgtg tgggatoctg gcaactgag ccttgatcc		
-829	ctgggctcaa gtagttctcc tgcctcagta gctaggacta cagacccctc caactccgctc tggatagttt taataaata ttttagaga		
-729	tggggtcttc caatgtctgc cagattggtc tocaaatct ggcctcagcc toctagggt ctaggattac aggtgggag caccctgccc aggtccctcc		
-629	ttttgtgag toatccagc tttgtcatt cccacatcag gctctggccc ccaataccag ctagtgtct caatgggctg TTTGTCTCTGG AACCCAGATG		EXON IA
-529	GACTGTGGCC GGGCAAGTGG ATCACAGGCC TGGCCAGCCT AGAGTTGCC ACATGTGAGG GGCAGAGGG CTCAGGAGG GGAACATCGG GGAGAGGAGC		
-429	CTACTGGGTG GAGCTGGGG GTCCAGCAG GAAATGTTGA GACAAAGGGC GCTGGCTGGC AGGAGACAG CACAGGAGG TCCTAGAGGT TCCTCAGTGC		
-329	AGCTGGACTC TCCTGGAGAC CTTACACAC CTTGACATCT GGGCCCCCTT CCACGAGGCT GCTTTCACCTG GTCTGCACCA TGGCCAGGC CCTGGGATT		
-229	TGAACAGTC CGCAGGTGAA TGAAGTga ggcaggtg ggcacccccc acattagaa cgcactggt ttttagcccc agcccgcca ctgactggcc		
-129	ttgtggtgc ggggaagtoa ctcaacctcc ctaggctcc gtagcttccc tgaaggaag aattccact tctgtgtt gtgagtgtg taagggaacg		
-29	ggcctggctc tggccctga cgcagAAC TGGAGCTGAT CCAGGACATC TCTGCCGC CACTGGAGTA CBTGAAGGG GTCCCTCTCA TCAAGTACTT		EXON II
72	TGCAGAGGCA CTGGGGCCC TGCAGAGCTT CCAGGCCCGG CCTGATGACC TGCTCATCAG CACTACCCC AACTCCGta ggtgaggag ggcacccccc		
172	A E A L G P L Q S F Q A R P D D L L I S T Y P K S G		EXON III
272	ctctccag tggagtcct caottggcc agcaggtga tgcacactc agcctgtca cctccactc cctccctct ccaagCACCA CTGGGTGAG		
372	CCAGATTCTG GACATGATCT ACCAGGGCGG TGACCTGGAA AAGTGTACC GAGCTCCCAT CTTATGCGG GTGCCCTTCC TTGAGTTCAA APTCCAGGG		
472	Q I L D M I Y Q G G D L E K C H R A P I F M R Y P F L E F K Y P G		EXON IV
	ATTCCCTCAG gtgtgtgtgt cctgggtgca aggggagtg aggaagacag ggtggggct tgaactccc agactccc ctagggATG		
	I P S G		
	GAGACTCTGA AAAACACACC AGCCCCAGSA CTCCTGAGSA CACACCTGCC CCTGGCTCTG CTCCCCAGA CTCGTGTGGA TCAGAGGTC AAGTgagac		
	E T L K N T P A P R L L K T H L P L A L L P Q T L L D Q K Y K		

FIG. 6B

572	tgggacagc ggttcacacc cgcacatoca gtaacttggg aggtgaggt gggagatoc attgaagcca gaagttoacg ataagtctot tccaaaaaa	
672	aaacttagct gtgcatagtg gtgtgtgoot gtaataccag ttactocagg ggttgggtg ggaagatcat ctgagccctag gagttaag gtaoagcgag	
772	ctatgatoac accagtgac toacggctgg gtgacagaga aacatgtot caaaaaaga tgaatgaaa gagtgtcca ccagtgctg ggtcaccacc	
872	tgtatctcca gcaottgaag aggtgaggo aggtgacta cctgagcta aggtttgag atcagctgg caacatggc aaaccccat ctctactaaa	
972	atacaaaaa aattagccgg goattgtggc aggcactgtt aatccagct aotgggag ctgagcagg agaattgct gaagctggga ggcagaggtt	
1072	gtagtacgc gagacctoac catggacccg cagctggga acaagagca aaotctgtc toaaaaaaa agaaaaagc gaaagtgga	
1172	gggggtggg cotgtgtgg ctacgcctg taataccagg acttggag gtgaggtgg gacatcac caagttagg agtttagat cagtctggcc	
1272	aacatggaga aacccgtot ctactaaaa taacaaaatt agccaggtt tggggcagg ccagatato ccagctact gggaggtga ggaagagaa	
1372	tagcttgac ctgggagggg gtgtgtgag tgaacggga ttgtgcaat gtaotccag ctggtgaga caacagaca ttgtttcaa caaaacaaat	
1472	aaatattta aaagtgtgc aacctgggtg gtaacgggt gtaatgcag catttggga ggcgaagtg ggtggacgc ttgagctcag gagtccaga	
1572	ccagccacgg aaactgggg agactocato totataaaag atgaataaa tcaagcaggc atgtggcat agcgtatag tccagctac tcaaaagtct	
1672	aagtttgag gattgttga gctgggag toaagttg toaactoca gtgactcca aactgggcaa caggaaaaa gaaagcccaa	
1772	ggtcttttt ctottttct tttttttga gactagat ccccccoc aaaaaaaa aaacacac aacagaaa agcaaggt ccaggtgtgg	
1872	ggcatgtga tcaaggaag gagcccccgt cagcccccgt cttgtctgt ttotctgtg gtagtgag cctaaagaa gtagaggtg ggtccoca gacccacaa	
1972	cgggggggac tgtctgctt ttgtctgtg gacccaaa atgagactot tccgggtga cctaaagaa gtagaggtg ggtccoca gacccacaa	
2072	atttgtgtt ggtgggaaca tgcctgtgt agcatgctt gctccagat ggggtgtgac gattgag agattatatt actataga atgatgtgt	
2172	caggagacag gaaggacttt ggttttgag cagggttcag atcctgactt ggcctacot gtgocgtgag atcacaaca agtcagctc taagcctcag	
2272	cttctctct tgcacacaa agagatgag tggcctggg cagggtgtgt ggtgatgtgt gtctttgtgt cctgtgac gtcctatgtt	
2372	CCGCAACGC AAAGGATGTG GCGGTTTCT ACTACCACTT CTACCACATG GCCAAAGTGT ACCCTCACCC TGGGACCTGG GAAAGCTTCC TGGAGAGTT	EXON V
2472	R N A K D Y A V S Y Y H F Y H M A K Y Y P H P G T W E S F L E K F	
2572	CATGCTGGA GAAGTGGG ttgatgggg gaaggaaggt gtggagctaa ggggtgtgtgt gtctttgtgt gtctttgtgt	EXON VI
2672	M A G E W S Y G S W Y Q H Y Q E W W E L S R T H P Y L Y L F Y E D M K	
	GGAGTgaga cggcctttga tgcctcccto caagt-gaac ctggggggcag gcaottoaca gggacotgco aaggccacccc agccaccccto cctggggcgc	

FIG. 6C

1	acctctgcct	cctgggtcca	agcaatccct	cttccctcacc	ctccagagta	gctgggatta
61	cacgcgcctg	ccaccgcgcc	tggcctaaat	tttgtatttt	tagtagagat	gggggtttcc
121	aaccatgttg	gccaggctgg	tctccaaact	cctgacctca	ggtgatccctg	cccacctaa
181	cctcccaaaa	tgctggtatt	acaggcatga	gccaccgtgc	ccggcctaaa	taattaataa
241	aataatggac	gatgggtgcc	ttctactgag	ctcccggtaa	ttgtgagtga	gtagaggact
301	tgccctgggg	acattcagtg	acctgctggg	tggtgctgag	ctgtgaggaa	gttcaggctc
361	ggctgcagtg	gtgaggctgt	gactcaatca	atcactgctg	atgctcccag	gacctgcacc
421	agcttagtcc	taggggcaag	gattttaact	gtccacctca	gtctcttcat	ttgtaagatg
481	caaataacag	tcacccctgc	ctcatgggat	ggagctgtgt	aatgcccgca	acagtgccct
541	ctgcatagag	gggttgctgc	cagctgcctc	tccctctctg	tctcttacct	gctctgctcc
601	tggtgacatg	cctggcagag	gagtttcttc	gccccaccc	tggtgcctg	ctaaaggccc
661	agggccaatg	ccttggtga	gtgcagtcct	aggaagaacc	agggcagctt	ctgccccctg
721	aggggtcccc	gttggtcaat	ctggccccag	ctggccccag	cctggtccac	ctctgggaag
781	cggatactgg	agggggcctg	ctggccccag	gcagctgagc	cctcatctca	gcctgcaggg
841	gtagctgtga	gaagtcactg	tggcatctga	cctgttatct	cctacctgcc	cctctctctg
901	agaaagaagt	agaagactca	gaattagaag	acctgatctg	gctgtgccag	atggacactg
961	acccactcc	ctgcccctgg	ctgctgtgta	aggtgagtgg	gctttgggtg	cgggctccct
1021	acagacctgc	tggaacctg	atcctcagtg	ccacactgct	tgctctgca	ggcacactgg
1081	cacctgctgt	gggtccagca	ggtttttctg	tctttacccc	ctcctacctc	ttttctgtgc
1141	gccttatggt	ggatgctgag	ggagggggcg	tgagtacaat	aaaaagtctg	agtcaagggt
1201	ggggcttcc	caggggcaca	gaggaggcag	gagctagtga	cccaaggtcc	tgccagtcac
1261	cttctactct	gcctggaaac	cccctgcctc	gagggggccc	tgccactagc	acgtgaacatg
1321	caattcttgg	aagcctggga	gacttacctt	agctttcccc	tacttgccctc	tgagctcatg
1381	ggaggatggg	gggatgccct	ccttccacgg	gaaattgaat	gcaaatagga	caaagaccaa
1441	ctagtctctt	gtctacggag	cctccttcaa	ggccctgtgg	cttccagtc	ttaatctcct
1501	tggttttctt	ctaggatctt	ctattgatgc	acctcaggaa	agaaaagcac	ctgccagggt
1561	agggctggct	cctagggcaa	tggaactaca	tctgtgaggt	cccccaggag	ccatgaagct
1621	ctttctttct	ttcttttttt	tttttttttt	gtgtccttgt	ccttctctat	tctttctgtt
1681	ccaggctgga	gtgcagtggt	gtgatcttgg	tttttttgag	acagagtctc	actctgttgc
1741	gtgatctctt	tgccctagcc	tcctgagtag	ctcactgaaa	cctccgcctc	ctgggttcaa
1801	agctaatttt	tgtattttta	gtagagacag	ctaggattac	aggtgcccg	catcatgcc
1861	aactcctgac	ctcaggtgat	cttgctgcac	ggtttcacca	tggtggccag	cttggtctcg
1921	tgagccacca	cgtcagcct	ccttcttgtt	cgacctccca	aagtactggg	attacaggcg
1981	cccttcactc	tgccccacac	atcactccag	ctatatgtcc	atgctctgct	ccacttctgc
2041	tgggctgctg	ggggcctgtg	gactgcactg	actggccttg	tgctcagagc	ctggaatgcc
2101	cctgtagcca	gcaggtaggt	gacttttccc	ggccagaacc	cctgccgcct	ctgaagactg
2161	tcactcacct	cccttgccct	ggccaattag	agggcggcct	atccccacct	tccccctcac
2221	atgcctgtaa	tctcagcact	ttgggaggcc	agaaagcttg	tcggccaggc	atgggtggctc
2281	ttgagaccag	cctggccaac	atggcaaaaac	gaggcggggc	gatcatctga	gctcaggagt
2341	cggatgtggt	gggtgtgcacc	tgtaatccca	ccgctctcta	ctaaaaatac	aaaaatatac
2401	cttgaaccca	ggaggggggag	gttacactga	gctactcggg	aggtctaggc	agaagaatcg
2461	ggcgagagag	cgagtctcca	tctcacataa	gcggagatcg	tgtactgca	ttgcagcctg
2521	ctggtggcct	gccctgcagg	gtggagttca	aaaaaagaaa	agaaagaaa	gcaagcttgt
2581	aaaaaataaa	aaacccaat	accaatgttg	gagggaaggt	caggagccta	gtgacagctc
2641	tatacataaa	actcacatat	tgggtttgca	gccccctttg	cctttcatte	atgtgttttc
2701	ggtaaggagg	gtaatataga	agcttcccc	gatcactcca	agcttggttg	gagctgtggg
2761	ccccagccct	gacttttagat	ccctccccca	ccctcaaccc	caccccttcc	ttcctggagt
2821	cagccctaca	ctccctacac	caaccccata	ctggaccttc	aaaaccttca	gggcagagag
2881	tcaggttccc	gaagactcag	gtgagtga	ctcagccctc	gcaggcaagg	agagaacagg
2941	gctcagcttg	tggtccaac	attctagaag	cgttggaatg	gcccagggca	ccttcaccct
3001	atggatatte	catttcaatt	agacaacca	ccgaggccct	tgccatccct	gccccctccc
3061	tttcccttgt	gtatttttga	gacagggtgt	gcttggccgg	aacccccctg	cgttccctcc
3121	gatcctggcc	cactgcagcc	tcaattcct	tgctccgtca	cccaggctgg	aggtgagtgg
3181				aggctgagge	aatcctgccg	cctcagcctc

FIG. 7A

3241	ctgagtagct	ggsgttacaa	gagcaagcca	ccacacccag	ctaattttga	aaaatattti:
3301	ttgtagagga	gaggtcttgc	tttgttggtc	agggttggtc	caaactccag	ggctcaaggg
3361	atcctttccc	gttggcctcc	caaggctctg	ggattacagg	cgggagtcac	cctgcctggg
3421	ccccctcttt	tgatgagtc	tcagttttca	ttcccgcacg	aggctctagc	ccctggtacc
3481	agcttagttg	ctcaatgggc	tgtgtttgtt	ctggagccca	gatggactgt	ggccaggcaa
3541	gtggatcaca	gacctggccg	gcctgggagg	tttccacatg	tgaggggcat	gaggggggct
3601	caaggagggg	agcatcgsgg	agaggagcgc	actgggtgga	ggctgggggt	cccagcagga
3661	aatggtgaga	caaagggcgc	tggtggcag	ggagacagca	caggcaggcc	ctagagcttc
3721	ctcagcacag	ctggactctc	ctggagacct	tcacacaccc	tgatatctgg	gccccgcgt
3781	acgaggggtg	tttcaactgg	ctgcactatg	ccccaggccc	tgsgattttg	aacagctctg
3841	caggtgactg	aaaggtgcs	ccaggctggg	gaacgacctg	gtttcagccc	cayccccgc
3901	actgactgac	tttgtgagtg	cgggcaagtc	actcagcctc	cctaggcctc	agtgaacttc
3961	ctgaaagcaa	aaactctgca	aaggggcagc	tggtgtgctg	ctcacacctg	taatcccagc
4021	actttgggag	gctgaggtag	acaaatcact	tgaggccagg	agrtctagac	cagcctggcn
4081	aacatggtga	aaccccatct	ctactaaaga	aaaaaaaaaa	tragctgagc	atgggtgtac
4141	atgcttgtaa	tcccagctac	ttgggtgccc	gaggcgggag	gattgcttga	acccaagagg
4201	tggagtttgc	agtgaagctg	gattgtgcca	cactgcactc	cagcttgggt	gagagtga
4261	ctccatctca	aaaaaaaaaa	aaaaaagaga	gaatccact	ttcttgctg	tgtgatggtg
4321	gtaaggggaa	gggcctggct	ctggccccctg	atgcaggaac	atggagctga	tccaggacac
4381	ctcccccccg	ccactggagt	acgtgaagg	gggtcccgtc	atcaagtact	ttgcagaggg
4441	actggggccc	ctgcagagct	tccaagcccg	acctgatgac	ctgctcatca	acacctaccc
4501	caagtctggt	aagtgaggag	ggccacccac	ctctcccag	gcggcagtc	ccaccttgg
4561	cagcaagggtc	gtgccctcag	cctgctcacc	tcctatctcc	ctccctctgc	acgaccacc
4621	tggttgagcc	agatactgga	catgatctac	cagggcggcg	acctagagaa	gtgtaaccfg
4681	gctcccctct	acgtacgggt	gcccttcctt	gaggtcaatg	atccagggga	acctcaggt
4741	gcattggctg	gtcctggggg	taagggaagt	ggaggaagac	agggtgggg	cttcagctca
4801	ccagaccctc	cctgacccac	tactcagggc	tggagactct	gaaagacaca	ccgccccac
4861	ggctcatcaa	gtcacacctg	ccccctggct	tgctccctca	gactctgttg	gatcagaagg
4921	tcaaggtgag	gccgggctca	atgggttcaca	cctgtcatcc	cagtttyaga	ctgaggagg
4981	aggatccctt	gaaggcgaga	gatggagacc	agcctgggca	acattgctgt	agagatgaca
5041	tcccctctct	acaaaaataa	aattaacaac	ctgggtatgg	ggcatagact	gttcccagtt
5101	acttaggagg	ctcagcgggg	aggactgttt	atgcaaatag	gaagctgcaa	tgagccctga
5161	tgatcctgct	gctgcactcc	agcctgggca	acacagcaaa	accatctcta	cgaaaaaaa
5221	agttcccact	gactggcaag	gaaagccagg	aaggggggct	caggtgicct	ctcagccatg
5281	tacctgttct	tctgggaagg	cctcctcgct	ctgcccaggc	tcacacatc	ttttttttt
5341	ttgagacaga	gtccttgctct	gtcaccctgg	ctggagtga	gtggcatgat	ctcagctcac
5401	tgcaacctcc	gcctccccag	ttcaagtgat	tctcctgcct	cagcctcctg	agtactggg
5461	attacagctg	tggtgtacca	caccgggcta	atttttgtat	tctttttagt	agagacgggg
5521	tttcaccatg	ttggtcaagt	ggatctcaaa	ctcttgacct	tgtgatcctc	ctgectcgac
5581	ctcacaaagt	gctggaatta	caggcgtgag	ccaccgcgcc	tgccctttt	tttttttgag
5641	acagtttcac	tcttgttgcc	gaggctagag	cgcaatcgtg	tgatctcggt	tcactgcaac
5701	caccgcctcc	tgggttcaag	caattctcct	gcttcagcct	cccaaggagc	tgggattaca
5761	ggtacctgco	accacgccc	gctaattttg	tatttttagt	agagatgggg	tttcaccatg
5821	ttggtcaggc	tggtcttgaa	ctcctgacct	cagggtgatct	ggcacccttg	cctcccaaa
5881	tgccgggatt	agaggcatga	gccaccacgc	ccagccttca	tcacatcttg	agagagacaa
5941	ctgtctgcct	cttgcctctga	tgagggtctg	atgcaaagga	tagtgagtct	ctacagtga
6001	cacttaagaa	aggcagcatg	tgggtgctca	caggtcaggc	ggaggagggg	gagctgggtg
6061	ggaccaggca	tgcttctgct	cagatcagga	tatgatggca	ttgggtgcaga	ttatattagt
6121	atagaatatg	gtctcaggaa	ccaggcagga	ctttggcttc	cgagcagggt	tcagatccca
6181	gcttggccct	acctgtgcag	tgagatctca	agcaagtcat	cctctaagcc	tcaggttctc
6241	cccttgccag	ttcaacagat	gagctggcct	gggggtgggt	gtgtgggtgat	gggtgctggg
6301	ctgggtcctc	tqccccctga	gttgggtctat	gttggccgaa	acccaaagga	cgtggcggtc
6361	tcctactacc	atttccaccg	tatggaaaag	gcgcaccctg	agcctgggac	ctgggacagc
6421	ttcctggaaa	agttcatggc	tggagaaggt	gggcttgact	ggaggaagga	gggtgtgaag
6481	ccgaggggtg	gtggctataa	cgtacagcaa	ccctgtgtcg	gtgccccctg	cccgcttctc
6541	tagtgcctca	cgggtccttg	taccagcacg	tgaggagtgt	gtgggagctg	agccgcaccc
6601	acctgttct	ctacctcttc	tatgaagafa	tgaaggaggt	gagaccgact	gtgatgcttc

FIG. 7B

6661	cccccatgtg	acacctgggg	gcaggcacct	cacagggacc	caccaaggcc	acccagcccc
6721	gtccctgggc	ggctcccaca	gcaagcccgg	attcccccac	ctacctccct	ggcccaggcc
6781	ccccactgc	agccccacct	ggcagcaggc	tcggcacagc	tttcatcttc	tgcacctgag
6841	tcagctgcat	gggtggccac	ggatcagata	cttagtccta	ttgcttatcc	tcaccaaagj
6901	gtgtgccacc	cagggccaca	gtcatggaag	aagaccatcc	cggtcctcac	ccataggcgc
6961	caagccctgt	tcatgatggg	atcacagggc	agagatcaat	tcattttact	cca, agacta
7021	gggccccagg	ggttgaggct	ctttgggggt	tctaggggaa	gtggccagat	cccctctgag
7081	gttagagagg	gggacccggt	ttgttttgct	ccactgagga	gccctctgct	gctcagaaacc
7141	ccaaaaggga	gattcaaaag	atcctggagt	ttgtggggcg	ctccctgcca	gaggagacca
7201	tggacttcat	ggttcagcac	acgtcgttca	aggagatgaa	gaagaaccct	atgaccaact
7261	acaccaccgt	cccccaagg	ctcatggacc	acagcatctc	ccccttcatg	aggaaaagtg
7321	ggtgctggcc	agcacggggg	tttggggcg	gtgggagcag	cagctgcagc	ctccccatag
7381	gcacttgggg	cctcccctgg	gatgagactc	cagctttgct	ccctgccttc	ctccccacg
7441	catggctggg	gactggaaga	ccaccttcac	cgtggcgag	aatgagcgct	tcgatgcgga
7501	ctatgcggag	aagatggcag	gctgcagcct	cagcttccgc	tctgagctgt	gagaggggct
7561	cctggagtca	ctgcagaggg	agtgtgcgaa	tctaccctga	ccaatgggct	caagaataaa
7621	gtatgatttt	tgagtcaggc	acagtggctc	atgtctgcaa	tcacagcgat	ttgggaggtt
7681	gagctggtag	gatacacaata	ggccacgaat	ttgagaccag	cctggtaaaa	tagtgagacc
7741	tcattctctac	aaagatgtaa	aaaaattagc	cacatgtgct	ggcacttacc	tgtagtccca
7801	gctacttggg	aagcagaggc	tggaggatca	tttcagccca	ggaggttgtg	gatacagtga
7861	gttatgacat	gcccattcac	tacagcctgg	atgacaagca	agaccctccc	tccaaagaaa
7921	ataaaqctca	attaaaaata	aatatgattt	gtgttcatgt	agagcctgta	ttggaaaagga
7981	agagaaaactc	tgagctgaaa	gagtgaatgc	ccggtggggc	cacatatggt	cacctctccc
8041	ccagccttca	gctccccagg	tcaccatatc	tggggagggg	agaaggggtt	ggagaagtaa
8101	aaccaggag	atgtgtggag	gggggatgtc	tgtttaatcc	cagcacatcc	tctgctgtcc
8161	tgccccaaaga	tggtggagga	cgtcagatcc	gccgggcagc	gtcacttttt	cttgggctcc
8221	ttagaagcta	ccagggtacct	ctggggccaca	ctgagatgag	gggagtagcc	gcctgcatag
8281	gaggtgtctt	caaacaggat	agtatagtcc	ctcctggggg	ttgtgggggt	aggtggccaa
8341	ggaagggtag	aggagcaagc	ccccggggct	ggttgtcaac	tcactttgtt	ggctggaatt
8401	ggttgtaact	tgaccacctc	gggcaggatc	ccactgctca	tccccaa	

FIG. 7C